

**Part number:**

**39301-0403**

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**Legal disclaimer**

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**General description**

Affordable infrared camera with high quality image, high accuracy, focus free viewing, and storage on miniSD card.

**Key features:**

- Extremely lightweight, 0.34 kg (0.75 lb.)
- 2% high accuracy and thermal sensitivity of 0.15°C
- Large 2.8 in. color LCD with quality images saved on miniSD card
- Long, 5 hour battery life
- Focus free lens for quick and convenient viewing

**Imaging and optical data**

Field of view (FOV)	12.5° × 12.5°
Minimum focus distance	0.6 m (2 ft.)
Spatial resolution (IFOV)	3.7 mrad
F-number	1.5
Thermal sensitivity/NETD	< 0.15°C (0.27°F) / 150 mK
Image frequency	9 Hz
Focus	Focus free

**Detector data**

Detector type	Focal plane array (FPA), uncooled microbolometer
Spectral range	7.5–13 μm
IR resolution	60 × 60 pixels

**Image presentation**

Display	2.8 in. color LCD
Image adjustment	Automatic adjust/lock image

**Measurement**

Object temperature range	–20°C to +250°C (–4°F to +482°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)

**Measurement analysis**

Spotmeter	Center spot
Emissivity correction	Variable from 0.1 to 1.0
Emissivity table	Emissivity table of predefined materials
Reflected apparent temperature correction	Automatic, based on input of reflected temperature

**Set-up**

Color palettes	Black and white, iron and rainbow
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## Set-up

Set-up commands	Local adaptation of units, language, date and time formats
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## Storage of images

Storage media	miniSD card
File formats	Standard JPEG, 14-bit measurement data included

## Data communication interfaces

Interfaces	USB Mini-B: Data transfer to and from PC
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## Power system

Battery type	Rechargeable Li Ion battery
Battery voltage	3.6 V
Battery operating time	Approx. 5 hours at +25°C (+77°F) ambient temperature and typical use
Charging system	Battery is charged inside the camera.
Charging time	3 h to 90% capacity
Power management	Automatic shut-down
AC operation	AC adapter, 90–260 VAC input, 5 VDC output to camera

## Environmental data

Operating temperature range	0°C to +50°C (+32°F to +122°F)
Storage temperature range	–40°C to +70°C (–40°F to +158°F)
Humidity (operating and storage)	IEC 60068-2-30/24 h 95% relative humidity
EMC	<ul style="list-style-type: none"> <li>EN 61000-6-2:2005 (Immunity)</li> <li>EN 61000-6-3:2007 (Emission)</li> <li>FCC 47 CFR Part 15 Class B (Emission)</li> </ul>
Encapsulation	Camera housing and lens: IP 43 (IEC 60529)
Bump	25 g (IEC 60068-2-29)
Vibration	2 g (IEC 60068-2-6)

## Physical data

Camera weight, incl. battery	0.34 kg (0.75 lb.)
Camera size (L x W x H)	223 x 79 x 83 mm (8.8 x 3.1 x 3.3 in.)
Material	Polycarbonate + acrylonitrile butadiene styrene (PC-ABS) Thixomold magnesium Thermoplastic elastomer (TPE)
Color	Blue and gray

## Certifications

Certification	UL, CSA, CE, PSE and CCC
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## Scope of delivery

Packaging, type	Hard case
<ul style="list-style-type: none"> <li>Hard transport case (including padlock)</li> <li>Infrared camera</li> <li>Battery (inside camera)</li> <li>Calibration certificate</li> <li>FLIR QuickReport CD</li> <li>Hand strap</li> <li>miniSD card, with SD card adapter</li> <li>Power supply/charger with EU, UK, US and Australian plugs</li> <li>Printed Getting Started Guide</li> <li>Printed Important Information Guide</li> <li>USB cable</li> <li>User documentation CD-ROM</li> </ul>	

## Optional Accessories

- T910737 Memory card micro-SD with adapters
- T910423 USB cable Std A <-> Mini-B
- T910711 Power supply/charger with EU, UK, US and AU plugs



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## Optional Accessories

- T126024 Pouch
  - T197619 Hard transport case for ix
  - T197410 Battery
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## Optional Software

- T197717 FLIR Reporter 8.5 SP2, Professional
  - T197717L5 FLIR Reporter 8.5 SP2, Professional, 5 user licenses
  - T197717L10 FLIR Reporter 8.5 SP2, Professional, 10 user licenses
  - T197778 FLIR BuildIR 2.1
  - T197778L5 FLIR BuildIR 2.1, 5 user licenses
  - T197778L10 FLIR BuildIR 2.1, 10 user licenses
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## T910737; Memory card micro-SD with adapters



### General description

Micro-SD Card for data storage (e.g. images)

### Technical data

Memory card, size	At least 2 GB
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### Scope of delivery

- micro-SD
- Adapter to miniSD Card
- Adapter from miniSD Card to SD memory card

v1.03

## 1910423; USB cable Std A <-> Mini-B



### General description

This cable is used to connect the infrared camera with a computer, using the USB protocol.

### Technical data

Weight	60 g (2.1 oz.)
Cable length	1.8 m (5.9 ft.)
Connector	Standard USB-A to USB Mini-B

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## T910711; Power supply/charger with EU, UK, US and AU plugs



### General description

Combined power supply & battery charger.

### Technical data

AC operation	100–240 VAC, 50/60 Hz, output 5.0 VDC, 1.2 A
Power	6 W
Size (L × W × H)	69.2 × 43.3 × 29.8 mm (2.7 × 1.7 × 1.2 in.)
Cable length	1.8 m (5.9 ft.)

### Scope of delivery

- Power supply/Battery charger
- EU, UK, US and Australian plugs

v1.02

## T126024; Pouch



### General description

Camera pouch for FLIR iX series with shoulder strap (1.4 m, 4.6 ft.), possible to attach to waist belt.

### Technical data

Weight	0.12 kg (0.26 lb.)
Size (L × W × H)	240 × 90 × 75 mm (9.4 × 3.5 × 3.0 in.)
Color	Black

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## T197619; Hard transport case for ix



### General description

Hard transport case for FLIR ix and Extech ix

### Technical data

Weight	1.69 kg (3.73 lb.)
Size (L x W x H)	390 x 330 x 120 mm (15.4 x 13.0 x 4.7 in.)
Color	Black

v1.0

## T197410; Battery



### General description

High capacity battery for the IR camera.

### Technical data

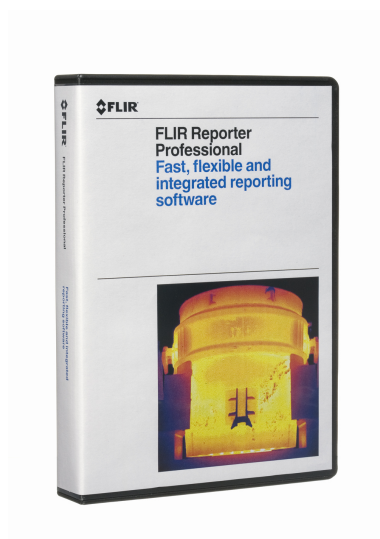
Battery type	Rechargeable Li Ion battery
Battery voltage	3.6 V
Battery note	Approximate lithium content: 0.7 g
Charging system	Battery is charged inside the camera

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## T197717; FLIR Reporter 8.5 SP2, Professional



### General description

FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.

#### Key features:

- Flexible report page design and layout for customized reports
- Use quick insert function to easily create custom report pages
- Fully integrated with standard Microsoft Word
- Generates reports in standard MS Office format and PDF-format
- Powerful temperature analysis
- Triple Fusion Picture-in-Picture (movable, sizable, scalable)
- Rapid report manager supporting automatic report generation by drag-and-drop
- Trending functionality
- Automatic link to Google™ Maps for images with GPS coordinates
- Automatic summary table for the report
- Fine tune images and make full temperature analysis directly in Microsoft Word
- Spell check
- Create your own formulas including measurement values from images
- Play radiometric sequences directly in the report
- Search functionality to quickly finding images for your report
- Panorama tool for combining several images to a larger image
- Support for GF series IR images
- Auto Update function
- Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)
- Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)
- Support for MeterLink™ data
- \*.docx compatibility

### Download

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=93>

### Release notes

Version	8.5 SP2
New features	<ul style="list-style-type: none"> <li>• --- News in SP2:</li> <li>• Office 2010 (32 bit)</li> <li>• Minor bug fixes</li> <li>• --- News in SP1:</li> <li>• Full support for Windows® 7</li> <li>• Support for MeterLink™ data</li> <li>• *.docx compatibility</li> </ul>

### Scope of delivery

- FLIR Reporter Professional
- Getting Starting Guide

P/N: 39301-0403

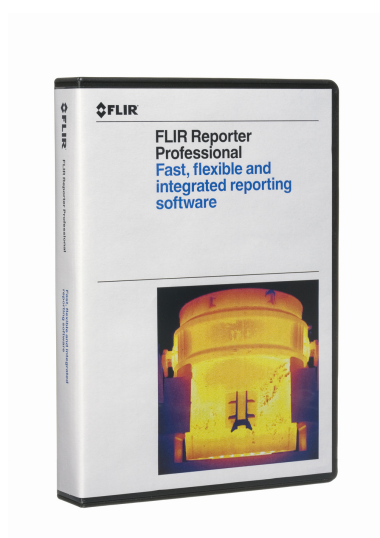
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## System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit</li> <li>• Windows Vista, 64-bit</li> <li>• Windows 7, 32-bit</li> <li>• Windows 7, 64-bit</li> </ul>
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v1.03

## T197717L5; FLIR Reporter 8.5 SP2, Professional, 5 user licenses



## General description

FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.

### Key features:

- Flexible report page design and layout for customized reports
- Use quick insert function to easily create custom report pages
- Fully integrated with standard Microsoft Word
- Generates reports in standard MS Office format and PDF-format
- Powerful temperature analysis
- Triple Fusion Picture-in-Picture (movable, sizable, scalable)
- Rapid report manager supporting automatic report generation by drag-and-drop
- Trending functionality
- Automatic link to Google™ Maps for images with GPS coordinates
- Automatic summary table for the report
- Fine tune images and make full temperature analysis directly in Microsoft Word
- Spell check
- Create your own formulas including measurement values from images
- Play radiometric sequences directly in the report
- Search functionality to quickly finding images for your report
- Panorama tool for combining several images to a larger image
- Support for GF series IR images
- Auto Update function
- Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)
- Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)
- Support for MeterLink™ data
- \*.docx compatibility

## Download

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=93>

## Release notes

Version	8.5 SP2
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## Release notes

### New features

- --- News in SP2:
- Office 2010 (32 bit)
- Minor bug fixes
- --- News in SP1:
- Full support for Windows® 7
- Support for MeterLink™ data
- \*.docx compatibility

## Scope of delivery

- FLIR Reporter Professional
- Getting Starting Guide
- 5 user licenses

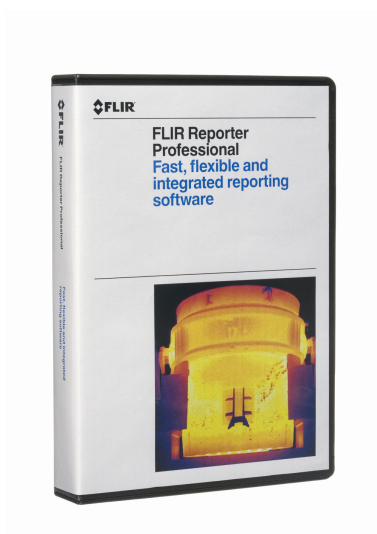
## System requirements

### Operating system

- Windows XP, 32-bit
- Windows Vista, 32-bit
- Windows Vista, 64-bit
- Windows 7, 32-bit
- Windows 7, 64-bit

v1.02

## T197717L10; FLIR Reporter 8.5 SP2, Professional, 10 user licenses



## General description

FLIR Reporter Professional is a powerful software for creating compelling and professional, fully customized, easy-to-interpret maintenance reports.

Professional Report Wizard guides you step-by-step in combining all IR inspection data - infrared and visual images, temperature measurements, and text notes – into a professional, easy-to-interpret maintenance report.

Key features:

P/N: 39301-0403

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## General description

- Flexible report page design and layout for customized reports
- Use quick insert function to easily create custom report pages
- Fully integrated with standard Microsoft Word
- Generates reports in standard MS Office format and PDF-format
- Powerful temperature analysis
- Triple Fusion Picture-in-Picture (movable, sizable, scalable)
- Rapid report manager supporting automatic report generation by drag-and-drop
- Trending functionality
- Automatic link to Google™ Maps for images with GPS coordinates
- Automatic summary table for the report
- Fine tune images and make full temperature analysis directly in Microsoft Word
- Spell check
- Create your own formulas including measurement values from images
- Play radiometric sequences directly in the report
- Search functionality to quickly finding images for your report
- Panorama tool for combining several images to a larger image
- Support for GF series IR images
- Auto Update function
- Office 2003 (32-bit), Office 2007 (32-bit) and Office 2010 (32-bit)
- Windows 7 (32 and 64-bit), Windows Vista (32 and 64-bit)
- Support for MeterLink™ data
- \*.docx compatibility

## Download

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=93>

## Release notes

Version	8.5 SP2
New features	<ul style="list-style-type: none"><li>• --- News in SP2:</li><li>• Office 2010 (32 bit)</li><li>• Minor bug fixes</li><li>• --- News in SP1:</li><li>• Full support for Windows® 7</li><li>• Support for MeterLink™ data</li><li>• *.docx compatibility</li></ul>

## Scope of delivery

- FLIR Reporter Professional
- Getting Starting Guide
- 10 user licenses

## System requirements

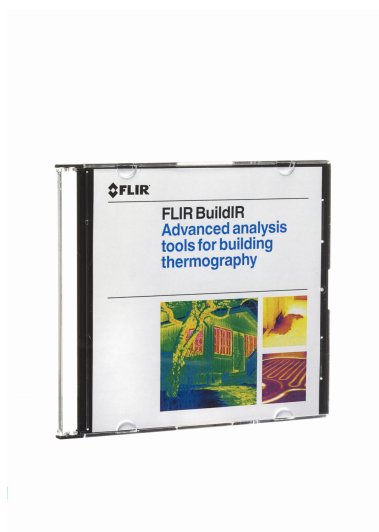
Operating system	<ul style="list-style-type: none"><li>• Windows XP, 32-bit</li><li>• Windows Vista, 32-bit</li><li>• Windows Vista, 64-bit</li><li>• Windows 7, 32-bit</li><li>• Windows 7, 64-bit</li></ul>
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v1.02

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## T197778; FLIR BuildIR 2.1



### General description

A dedicated and flexible software for advanced analyses of building related applications.  
Report templates for energy loss / cost savings potential, air infiltration, moisture and insulation deficiencies.  
Assess scope of damage/problem.  
Increase Speed & Quality of your reports.  
Quantify geometrical areas and use the panorama tool to stitch images of large objects together.  
Makes the work considerably easier for building related analyses - Organize, Analyze, Report

#### Key features:

- See, Quantify and Estimate potential energy cost savings.
- Possibility of assessing scope of damage/problem
- Customized report templates for: Air infiltration, Moisture, Insulation deficiencies, and estimation of potential energy savings.
- Panorama functionality: Create automatically one image from many to cover large objects or increase resolution
- Link files.
- Create graph of the conditions during the inspection.
- Support for MeterLink™ data

### Download

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=87>

### Release notes

Version	FLIR BuildIR 2.1
New features	<ul style="list-style-type: none"> <li>• Support for Windows® 7</li> <li>• Support for MeterLink™ data</li> <li>• Support for fusion</li> </ul>

### Scope of delivery

- FLIR BuildIR

### System requirements

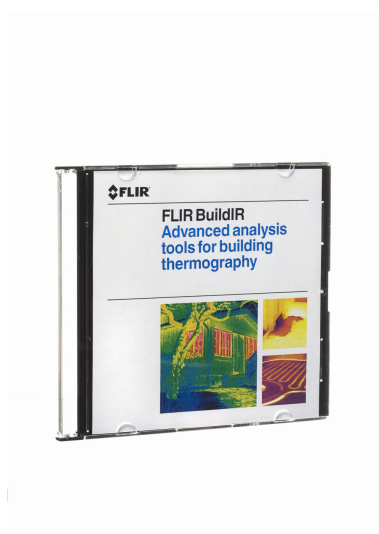
Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
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v1.01

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## T197778L5; FLIR BuildIR 2.1, 5 user licenses



### General description

A dedicated and flexible software for advanced analyses of building related applications.  
Report templates for energy loss / cost savings potential, air infiltration, moisture and insulation deficiencies.  
Assess scope of damage/problem.  
Increase Speed & Quality of your reports.  
Quantify geometrical areas and use the panorama tool to stitch images of large objects together.  
Makes the work considerably easier for building related analyses - Organize, Analyze, Report

#### Key features:

- See, Quantify and Estimate potential energy cost savings.
- Possibility of assessing scope of damage/problem
- Customized report templates for: Air infiltration, Moisture, Insulation deficiencies, and estimation of potential energy savings.
- Panorama functionality: Create automatically one image from many to cover large objects or increase resolution
- Link files.
- Create graph of the conditions during the inspection.
- Support for MeterLink™ data

### Download

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### Release notes

Version	FLIR BuildIR 2.1
New features	<ul style="list-style-type: none"> <li>• Support for Windows® 7</li> <li>• Support for MeterLink™ data</li> <li>• Support for fusion</li> </ul>

### Scope of delivery

- FLIR BuildIR
- 5 user licenses

### System requirements

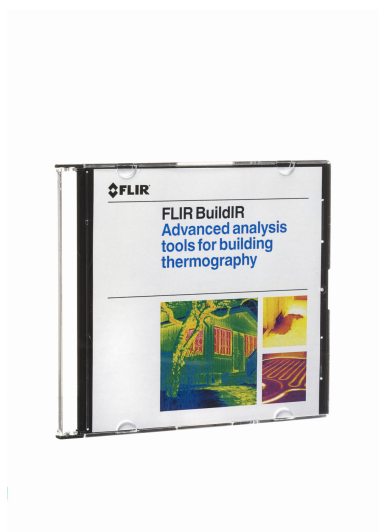
Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
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v1.01

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## T197778L10; FLIR BuildIR 2.1, 10 user licenses



### General description

A dedicated and flexible software for advanced analyses of building related applications.  
Report templates for energy loss / cost savings potential, air infiltration, moisture and insulation deficiencies.  
Assess scope of damage/problem.  
Increase Speed & Quality of your reports.  
Quantify geometrical areas and use the panorama tool to stitch images of large objects together.  
Makes the work considerably easier for building related analyses - Organize, Analyze, Report

#### Key features:

- See, Quantify and Estimate potential energy cost savings.
- Possibility of assessing scope of damage/problem
- Customized report templates for: Air infiltration, Moisture, Insulation deficiencies, and estimation of potential energy savings.
- Panorama functionality: Create automatically one image from many to cover large objects or increase resolution
- Link files.
- Create graph of the conditions during the inspection.
- Support for MeterLink™ data

### Download

<http://support.flir.com/SwDownload/app/RssSWDownload.aspx?ID=87>

### Release notes

Version	FLIR BuildIR 2.1
New features	<ul style="list-style-type: none"> <li>• Support for Windows® 7</li> <li>• Support for MeterLink™ data</li> <li>• Support for fusion</li> </ul>

### Scope of delivery

- FLIR BuildIR
- 10 user licenses

### System requirements

Operating system	<ul style="list-style-type: none"> <li>• Windows XP, 32-bit</li> <li>• Windows Vista, 32-bit/64-bit</li> <li>• Windows 7, 32-bit/64-bit</li> </ul>
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